

IN THE TITLE:

Please delete the current title and insert the following new title --A WET CONNECT/DISCONNECT

6 AND RECONNECT APPARATUS AND METHOD--

IN THE DRAWINGS:

A new set of formal drawings are submitted herewith.

IN THE CLAIMS:

A complete listing of the claims and their status is as follows:

CLAIM 2. (Cancelled)
CLAIM 3. (Cancelled)
CLAIM 4. (Cancelled)
CLAIM 5. (Cancelled)
CLAIM 6. (Cancelled)
CLAIM 7. (Cancelled)
CLAIM 8. (Cancelled)
CLAIM 9. (Cancelled)
CLAIM 10. (Cancelled)
CLAIM 11. (Cancelled)
CLAIM 12. (Cancelled)
CLAIM 13. (Cancelled)
CLAIM 14. (Cancelled)
CLAIM 15. (Cancelled)
CLAIM 16. (Cancelled)
CLAIM 17. (Cancelled)
CLAIM 18. (Cancelled)
CLAIM 19. (Cancelled)

CLAIM 20. (Cancelled)

CLAIM 21. (Cancelled)

CLAIM 22. (Cancelled)

CLAIM 23. (Cancelled)

CLAIM 24. (Cancelled)

CLAIM 25. (Cancelled)

CLAIM 26. (Currently amended) A conductor connection device for [a] makeup and break in a wet downhole environment comprising:

a first section connectable to implements intended to be located farther downhole than said first section when said device is installed in a wellbore;

at least one first section conductor associated with said first section;

a first connector in operable communication with each said at least one first section conductor, said first connectors being maintained in a clean condition or being cleanable while in the wet environment by operation of the connection device;

a second section connectable to implements intended to be located farther uphole than any said second section when said second section is installed in a wellbore;

at least one second section conductor associated with said second section;

a third section operably connected to said second section;

at least one third section conductor associated with said third section, said at least one third conductor being operably connected to said at least one second section conductor;

a third connector in operable communication with said at least one third section conductor, said third connector being maintained in a clean condition or being cleanable while in the wet location by operation of the connection device, said third connector being connectable to said first connector by operating said connection device, said third section being optionally separable while in the wet location from said second section after said connection device is operated to break the electrical connection between said implements located farther uphole and said implements located farther downhole;

a forth connector in operable communication with said at least one third conductor, said forth connector being maintained in a clean condition or being cleanable while in the wet location by operation of a subsequent connection device configured to make electrical connection with said fourth connector.

CLAIM 27. (Currently amended) A conductor connection device as claimed in claim 26 wherein said third section further comprises a conductor break to prevent conductive contact of said at least one first section conductor through said at least one third section conductor with wellbore fluids upon separation of said third section from said second section.

CLAIM 28. (Original) A conductor connection device as claimed in claim 27 wherein said conductor break comprises at least two contacts maintained in a clean environment, said contacts being separable upon separation of said second section.

CLAIM 29. (Original) A conductor connection device as claimed in claim 28 wherein said clean environment is maintained by a deflectable cover to which one of said at least two contacts is connected, said deflectable cover being deflected to maintain connection of said at least two contacts while said third section is attached to said second section.

CLAIM 30. (Original) A conductor connection device as claimed in claim 27 wherein said conductor break comprises:

- at least one contact pin; and
- at least one contact receptacle.

CLAIM 31. (Original) A conductor connection device as claimed in claim 30 wherein said break further comprises a slide which seals said at least one receptacle when said at least one pin is not engaged in said at least one receptacle.

CLAIM 32. (Original) A conductor connection device as claimed in claim 31 wherein said break further includes an actuator pin to actuate said slide.

CLAIM 33. (Original) A conductor connection device as claimed in claim 26 wherein said first connector and said third connector each comprise:

at least one pad;

at least one fluid impermeable covering on each said at least one pad.

CLAIM 34. (Original) A conductor connection device as claimed in claim 33 wherein said connection device further includes at least one interconnector providing interconnection between said first connector pad and said third connector pad.

6 CLAIM 35. (Original) A conductor connection device as claimed in claim 34 wherein said interconnector is a conductive piercing member which pierces said at least one fluid impermeable covering on each said at least one pad upon operation of said connection device.

CLAIM 36. (Original) A conductor connection device as claimed in claim 26 wherein said connection device is configured to provide a dielectric material to a vicinity of interconnection between said first connector and said third connector.

CLAIM 37. (Original) A conductor connection device as claimed in claim 35 wherein said covering is rubber.

CLAIM 38. (Original) A conductor connection device as claimed in claim 35 wherein said covering is metal.

CLAIM 39. (Original) A conductor connection device as claimed in claim 36 wherein said dielectric material is oil.

CLAIM 40. (Original) A conductor connection device as claimed in claim 36 wherein said dielectric material is grease.

CLAIM 41. (Original) A conductor connection device as claimed in claim 26 wherein said first connector and said third connector are exposed to environmental conditions and are wiped clean during operation of the connection device.

CLAIM 42. (Original) A conductor connection device as claimed in claim 41 wherein said device is configured to provide a dielectric material to an interconnection vicinity of said connection device.

CLAIM 43. (Original) A conductor connection device as claimed in claim 42 wherein said dielectric material is oil.

CLAIM 44. (Original) A conductor connection device as claimed in claim 42 wherein said dielectric material is grease.

CLAIM 45. (Original) A conductor connection device as claimed in claim 42 wherein said dielectric material is dispensed from a reservoir in said device.

CLAIM 46. (Original) A conductor connection device as claimed in claim 41 wherein said first connector and said third connector are wiped clean by each other.

CLAIM 47. (Original) A conductor connection device as claimed in claim 41 wherein said first connector and said third connector are wiped clean by a wiper.

CLAIM 48. (Original) A conductor connection device as claimed in claim 45 wherein said reservoir includes a check valve.

CLAIM 49. (Original) A conductor connection device as claimed in claim 26 wherein said first connector is a pad and said third connector includes a meltable conductive element.

CLAIM 50. (Original) A conductor connection device as claimed in claim 49 wherein said element is meltable by a coil.

CLAIM 51. (Original) A conductor connection device as claimed in claim 50 wherein said coil is powered from within said device.

CLAIM 52. (Original) A conductor connection device as claimed in claim 50 wherein said coil is powered from external to said device

CLAIM 53. (Original) A conductor connection device as claimed in claim 26 wherein said device is configured to provide a dielectric material to an area of interconnection of said first connector and said third connector.

CLAIM 54. (Original) A conductor connection device as claimed in claim 53 wherein said dielectric material is oil.

CLAIM 55. (Original) A conductor connection device as claimed in claim 53 wherein said dielectric material is grease.

CLAIM 56. (Cancelled)

CLAIM 62. (Cancelled)

CLAIM 63. (Cancelled)

CLAIM 64. (Cancelled)

CLAIM 65. (Currently amended) A method for creating a conductive connection in a wet downhole environment while providing for disconnection and reconnection in the wet environment comprising:

installing a first section connectable to implements located farther downhole than an intended location of said first section, said first section having at least one first section conductor associated therewith and a connector operably connected to said at least one conductor;

installing a second section connectable to implements located farther uphole than an intended location of said second section, said second section having at least one second section conductor associated therewith, said second section further including a third section having at least one third section conductor associated therewith and a third connector operably connected at one end to said at least one third section conductor and a fourth connector operably connected at the other end of said at least one third section connector; and

engaging said third section and said first section creating an electrical connection between said first connector and said third connector while in the wet environment.

CLAIM 66. (Original) A method for creating a conductive connection as claimed in claim 65 further including:

3 disconnecting said second section from said third section; and

4 installing a separate second section and engaging said third section in position as connected to said first section.

CLAIM 67. (Original) A method for creating a conductive connection as claimed in claim 62 wherein said engaging includes flushing with a dielectric fluid, a connection area of interconnection between said first connector and said second connector.

52 CLAIM 68. (Original) A method for creating a conductive connection as claimed in claim 65 wherein said engaging includes flushing with a dielectric fluid, a connection area of interconnection between said first connector and said third connector.

CLAIM 69. (Cancelled)

CLAIM 70. (Cancelled)

CLAIM 71. (Cancelled)

CLAIM 72. (Cancelled)

CLAIM 73. (Cancelled)

CLAIM 74. (Cancelled)

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CLAIM 81. (Cancelled)

CLAIM 82. (Cancelled)

CLAIM 83. (Cancelled)

CLAIM 84. (Cancelled)

CLAIM 85. (Cancelled)

CLAIM 86. (Cancelled)

CLAIM 87. (Cancelled)